



# Society for Benefit-Cost Analysis

Thinking About  
the **Width & Breadth**  
of Benefit-Cost Analysis

# 2019

**11TH ANNUAL CONFERENCE & MEETING**

**MARCH 13-15** | WASHINGTON, DC

The George Washington University Marvin Center





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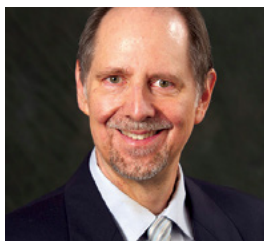
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# THANK YOU TO OUR FOUNDING INSTITUTION



## EVANS SCHOOL OF PUBLIC POLICY & GOVERNANCE

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# WELCOME

Dear friends and colleagues,

Welcome to the **2019 Society for Benefit-Cost Analysis Annual Conference and Meeting**. We have 43 excellent sessions planned on a wide range of topics. The presentations cover topics from around the world, reflecting the global reach of our field and Society. The presentations also reflect the wide scope of benefit-cost analysis, tackling subjects as diverse as regulatory innovation, the Olympics, taxes, sanitation campaigns in Africa, drawbridges, nudges, and the statistical value of a dog life.

In addition to the sessions, we hope you enjoy our evening receptions on Wednesday through Friday. On Thursday over lunch we will hold our membership meeting, which will include a discussion of our plans for the Society's future. Please feel free to contact any of us with your suggestions and ideas. At lunch on Friday we will welcome our keynote speaker, Cass Sunstein, the Robert Walmsley University Professor at Harvard and Administrator of the Office of Information and Regulatory Affairs from 2009 to 2012. Professor Sunstein will speak on "Sludge and Ordeals." On Friday afternoon the plenary session will feature Dean Jamison, Professor Emeritus, University of California, San Francisco. Professor Jamison's topic will be "Valuing Investments in Health for Development: Reflections on Three Dynamic Decades"

We are enormously indebted to the members of the **2019 Program Committee**, whose hard work contributed to the program:

**Kenneth Acks** (The Cost-Benefit Group)

**Daniel Acland** (UC Berkeley)

**Eliane Catilina** (Environmental Protection Agency)

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**Tomeka Williams** (MITRE Corporation)

**Richard Zerbe** (University of Washington)

We are also indebted to the **2019 Workshop Committee** for arranging the professional development workshops:

**Steven Lize, Chair** (Pew Charitable Trusts)

**Jennifer Baxter** (Industrial Economics, Inc.)

**Cristina McLaughlin** (U.S. Food & Drug Administration)

**Lisa A. Robinson** (Harvard University)

**Stuart Shapiro** (Rutgers University)

We would also like to thank **American Chemical Council, American Petroleum Institute, ExxonMobil, The Gates Foundation/Harvard University** and the **GW Regulatory Studies Center** for helping to sponsor this conference. We also thank our **Organizational Affiliates, Premium Members** and **Individual Donors**, who are listed on the following pages.

And finally, we would like to thank you, SBCA's members and participants, for your many contributions to the Society, to this conference, and to benefit-cost analysis. We hope that we will see you at future conferences and other Society events.

I look forward to seeing each of you at this year's conference.

Sincerely,



**Clark Nardinelli**  
*President and  
Conference Chair*

*Clark Nardinelli*



**Craig Thornton**  
*Vice President*

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**Donald Kenkel**  
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Conference support is provided by:



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## SAVE THE DATE

**12<sup>TH</sup> SBCA ANNUAL CONFERENCE & MEETING**  
**MARCH 2020 | WASHINGTON, DC**



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# SOCIETY FOR BENEFIT-COST ANALYSIS



**Clark Nardinelli**

*President, Society for  
Benefit-Cost Analysis*

Founded in 2007, the Society is an international organization dedicated to the advancement, exchange of ideas, and research related to benefit-cost analysis (BCA), cost-effectiveness analysis, risk-benefit analysis, applied welfare economic analysis, and damage assessment.

The Society's primary goals are:

- ➔ **Bring together individuals from diverse disciplines and from different countries and provide them opportunities to foster collaboration and exchange information, ideas, and methodologies;**
- ➔ **Encourage applications of benefit-cost analysis and applied welfare economics, and promote dialogue between practitioners;**
- ➔ **Facilitate the development and dissemination of knowledge about benefit-cost and applied welfare analysis;**
- ➔ **Develop and update standards of practice; and**
- ➔ **Foster methods to improve communication and consideration of benefit-cost methods and results.**

## 2019 BOARD OF DIRECTORS

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# MEMBERSHIP

The Society for Benefit-Cost Analysis has a continuously growing membership working in numerous policy areas, including scholars and practitioners from academia, nonprofits, businesses, and government agencies around the world. The table below summarizes the benefits associated with each level of annual organizational and individual participation:

	ORGANIZATIONAL AFFILIATE				INDIVIDUAL			
BENEFITS	Benefactor \$10,000	Sustainer \$5,000	Patron \$2,500	Supporter \$1,000	Premium \$200	Basic \$120	International \$50	Student \$25
Receive announcements about Society events	✓	✓	✓	✓	✓	✓	✓	✓
Complimentary digital subscription to Journal of Benefit-Cost Analysis	✓	✓	✓	✓	✓	✓	✓	✓
Access to member contact information	✓	✓	✓	✓	✓	✓	✓	✓
Eligible to serve on Society's Board of Directors					✓	✓	✓	✓
Discounted registration for Society's annual conference					✓	✓	✓	✓
Listing on Society's membership page with link to organization's home page	✓	✓	✓	✓	✓			
Public recognition at all Society events	✓	✓	✓	✓				
Listing on official Society correspondence except letters	✓	✓	✓	✓				
Individual Basic Membership(s), including all related benefits	Four	Two	One	One				
Complimentary registrations for Society's annual conference	Four	Two	One	None				
Complimentary ad in conference program or exhibit table at conference		✓						
Complimentary ad in conference program and exhibit table at conference	✓							



To join the SBCA, please visit <http://benefitcostanalysis.org/membership>  
Membership information and forms will also be available at the  
conference registration table.



# JOURNAL OF BENEFIT-COST ANALYSIS

The only journal devoted exclusively to benefit-cost analysis, the leading evidence-based analytical method for determining if the consequences of specific public actions make society better off overall.

## BEST ARTICLES FOR 2018

The editors are pleased to congratulate the Best Article Award winners, **Scott Farrow** and **Adam Rose** for “**Welfare Analysis: Bridging the Partial and General Equilibrium Divide for Policy Analysis**” JBCA 9, 1 (Spring 2018) and **W. Kip Viscusi** for “**Best Estimate Selection Bias in the Value of a Statistical Life**” JBCA 9, 2 (Summer 2018).

Concerning their selection, the Best Article Award Committee (Thomas Kniesner, Sandra Hoffman, and Timothy Bartik) offer the following concerning their selection of two winners.

Farrow and Rose provide a comprehensive literature-based comparison of the differences among partial equilibrium, linear input-output, and non-linear general equilibrium models that is accessible to readers. Farrow and Rose conclude that we should relax government rules against general equilibrium approaches to benefit-cost analyses while accompanying their recommendation with a fair-minded consideration of the arguments against their recommendation of increased use of general equilibrium implications for BCA.

Viscusi provides important new evidence on the value of a statistical life, which plays an important role in benefit-cost analyses of protection of life programs. He finds that although publication bias is significant, the problem is most pervasive for meta-analyses that rely on what researchers select as the “best” estimate. If researchers instead use all estimates, and properly control for sample characteristics, the preferred estimates of VSL diverge little from estimates currently in use by government agencies in program evaluation.

Editors Glenn C. Blomquist and William H. Hoyt and Managing Editor Mary Kokoski continue with abundant support and look forward to the new editorial leadership taking on the leadership challenges and opportunities to continue growing the Journal. Thanks in particular go to Editorial Board members, authors, reviewers, the MacArthur Foundation, and all who contribute to growing the JBCA.

## EDITORIAL BOARD

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SBCA gratefully acknowledges the contributions of the outgoing journal editorial team made up of Editors **Glenn C. Blomquist** and **William H. Hoyt** and Managing Editor **Mary Kokoski**. Additionally, the journal would not be possible without the support of the Editorial Board members, authors, and reviewers.



# Journal of Benefit-Cost Analysis

"This is a superb journal, with a large number of truly excellent contributions. In terms of thinking about regulation and cost-benefit analysis, it is indispensable reading."

Cass R. Sunstein,  
Harvard University

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**Society for Benefit-Cost Analysis**



# 2019

## PROGRAM OVERVIEW

**11TH ANNUAL CONFERENCE & MEETING**  
**MARCH 13-15** | WASHINGTON, DC  
The George Washington University Marvin Center

### CONFERENCE SUMMARY

All conference activities will be held on the  
**Third floor** of the **Marvin Center, GWU.**

Unless noted below, conference sessions will start each day at **9:00 am** and run for **90 minutes** throughout the day on Thursday and Friday. Please see detailed schedule for specific session start times, topics and speakers.

All conference registrants are invited to attend all sessions. Luncheons, refreshment breaks, and receptions are open to all individuals registered for the conference.

### KEY EVENTS

#### MEMBERSHIP LUNCHEON

Thursday | March 14  
12:15 to 2:00 pm

#### LUNCHEON KEYNOTE ADDRESS

**Cass Sunstein**  
Friday | March 15  
12:15 to 2:00 pm

#### PLENARY SESSION ADDRESS

**Dean Jamison**  
Friday | March 15  
3:45 to 5:00 pm

### RECEPTIONS

#### OPENING RECEPTION

Wednesday | March 13  
5:00 to 6:30 pm

#### NETWORKING RECEPTION

Thursday | March 14  
5:00 to 6:30 pm

#### CLOSING RECEPTION

Friday | March 15  
5:00 to 6:30 pm

### REGISTRATION

Wednesday | March 13  
8:00 am to 5:30 pm

Thursday | March 14  
8:00 am to 5:30 pm

Friday | March 15  
8:00 am to 5:00 pm

### WORKSHOPS

Wednesday | March 13  
Morning Session: 8:30 am to 12:30 pm

Wednesday | March 13  
Afternoon Session: 1:30 pm to 5:00 pm



# PRE-CONFERENCE WORKSHOPS

## WEDNESDAY, MARCH 13

8:00 – 9:00	Registration for Full-day and Morning Workshops
<b>8:30 – 12:30</b>	<b>Professional Development Workshops</b> <b>Workshop 2: A Voice Crying in the Wilderness? Techniques for Promoting the Use of Evidence and BCA Results to Policymakers</b> (Marvin 307) <b>Workshop 3: Using Meta-Analysis to Support Benefit-Cost Analysis and Evidence-Based Policymaking</b> (Marvin 308) <b>Workshop 5: Introduction to Regulatory Impact Assessment</b> (Marvin 310)
12:30 – 1:30	Lunch (provided for those registered for both morning and afternoon sessions) (Marvin 302)
1:00 – 1:30	Registration for Afternoon Workshop
<b>1:30 – 5:00</b>	<b>Professional Development Workshops</b> <b>Workshop 4: Deregulatory Benefit-Cost Analysis</b> (Marvin 310)
<b>5:00 – 6:30</b>	<b>Opening Reception</b> (for all registered workshop and conference participants) (Marvin 302)

# CONFERENCE SCHEDULE OVERVIEW

## CONFERENCE DAY 1 THURSDAY, MARCH 14

8:00 – 9:00	Registration (Marvin 3rd Floor Lobby) & Breakfast (Grand Ballroom)
<b>9:00 – 10:30</b>	<b>SESSION 1</b>
10:30 – 10:45	Break (Grand Ballroom & Continental Ballroom)
<b>10:45 – 12:15</b>	<b>SESSION 2</b>
12:15 – 2:00	Luncheon and Annual Meeting of the SBCA Membership (Grand Ballroom & Continental Ballroom)
<b>2:00 – 3:30</b>	<b>SESSION 3</b>
3:30 – 3:45	Break (Grand Ballroom & Continental Ballroom)
<b>3:45 – 5:15</b>	<b>SESSION 4</b>
5:30 – 6:30	Networking Reception (Grand Ballroom)

## CONFERENCE DAY 2 FRIDAY, MARCH 15

8:00 – 9:00	Registration (Marvin 3rd Floor Lobby) & Breakfast (Grand Ballroom)
<b>9:00 – 10:30</b>	<b>SESSION 5</b>
10:30 – 10:45	Break (Grand Ballroom & Continental Ballroom)
<b>10:45 – 12:15</b>	<b>SESSION 6</b>
12:15 – 2:00	Luncheon and Keynote Address (Grand Ballroom & Continental Ballroom)
<b>2:00 – 3:30</b>	<b>SESSION 7</b>
3:30 – 3:45	Break (Grand Ballroom & Continental Ballroom)
<b>3:45 – 5:00</b>	<b>SESSION 8</b>
5:00 – 6:30	Closing Reception (Continental Ballroom)

# DETAILED CONFERENCE SESSIONS

## SESSION 1 | THURSDAY, MARCH 14 | 9:00 - 10:30 AM

AMPHITHEATRE	1A	<b>Innovation, Precaution, and Benefit-Cost Analysis</b>
	Chair	<b>Tim Brennan</b> , University of Maryland – Baltimore County
	Panelists	<b>Julian Morris</b> , International Center for Law and Economics <b>Brian Mannix</b> , The George Washington University Regulatory Studies Center <b>Neil Chilson</b> , Charles Koch Foundation <b>Val Giddings</b> , Information Technology and Innovation Foundation
MARVIN 302	1C	<b>Perspectives on Social Discount Rate</b>
	Chair	<b>Joseph Cordes</b> , George Washington
	Presentations	<b>The Social Time Preference Approach to Discounting</b> <b>Maureen Cropper</b> , University of Maryland <b>The Social Opportunity Cost of Capital Approach to Discounting</b> <b>Arnold Harberger</b> , UCLA <b>Benefit-Cost Analysis with a Zero Social Discount Rate</b> <b>James Broughel</b> , Mercatus Center at George Mason University
MARVIN 307	1D	<b>Agricultural Trade and Policy</b>
	Chair	<b>Kelly Maguire</b> , United States Department of Agriculture
	Discussant	<b>Aliya Sassi</b> , United States Food and Drug Administration
	Presentation	<b>Predicting Potential Impacts of China's Retaliatory Tariff on U.S. Farm Sector</b> <b>Dallas Wood</b> , RTI International
MARVIN 308	Presentation and Q&A	<b>Using BCA to Make the World Better: Conversation on the Copenhagen Consensus</b> <b>Brad Wong</b> , Copenhagen Consensus Center
	1E	<b>Alternative Approaches to Regulation</b>
	Chair	<b>Amber Jessup</b> , United States Department of Health and Human Services
	Discussant	<b>Richard Belzer</b> , Regulatory Checkbook
	Presentations	<b>Emerging Technologies Will Reduce WTP for Population Risks</b> <b>Richard Williams</b> , Writer <b>Two Far-Reaching Changes to How we Quantify and Balance Risks and Regulatory Costs</b> <b>Adam M Finkel</b> , University of Michigan School of Public Health <b>A Coasean Approach to Cost-Benefit Analysis</b> <b>D. Bruce Johnsen</b> , Antonin Scalia Law School George Mason University

MARVIN 309	1F	<b>Environmental Policy: Up in the Air and Back Down to Earth</b>
	Chair	<b>Chris Dockins</b> , Environmental Protection Agency
	Discussant	<b>Charles Griffiths</b> , Environmental Protection Agency
	Presentations	<p><b>Maximizing the Potential Benefits of Air Quality Warnings</b> <b>Lisa A. Robinson</b>, Harvard University</p> <p><b>Achieving Air Pollution Reduction Goals of Planning: Pathway and Costs of Main Industries in China</b> <b>Beibei Liu</b>, Nanjing University</p> <p><b>Considering Benefits of Landscape Conservation in Benefit-Cost Analysis</b> <b>Michael Getzner</b>, Vienna University of Technology</p>

MARVIN 310	1G	<b>Transportation Policy: BCA Asks, “Is it Worth the Trip?”</b>
	Chair	<b>Deborah Aiken</b> , Department of Transportation
	Presentations	<p><b>Meta-Analysis of the Value of a Statistical Life in Road Safety</b> <b>Henrik Andersson</b>, Toulouse School of Economics</p> <p><b>Causal Inference for Ex-Post Evaluation of Transport Interventions</b> <b>Daniel Graham</b>, Imperial College London</p> <p><b>Cost Benefit Analysis and Transport Policy Decisions: Why Such a Gap?</b> <b>Emile Quinet</b>, Paris School of Economics <b>Alain Quinet</b>, SNCF Réseau</p> <p><b>Estimating User Benefits of a New Transportation Option with the Logsum Method</b> <b>Lucile Kellis</b>, Steer Group</p>

## SESSION 2 | THURSDAY, MARCH 14 | 10:45 AM - 12:15 PM

AMPHITHEATRE	2A	<b>Economic Evidence Informing Government: Policy Implications of BCA</b>
	Chair	<b>Steven Lize</b> , The Pew Charitable Trusts
	Presentations	<p><b>Efficiency Criteria for Nudges and Norms</b> <b>W. Kip Viscusi</b>, Vanderbilt University</p> <p><b>WTA vs. WTP Choices and Valuations vs. Remedial Guides: The Illustrative Example of the Loss from the BP Gulf Oil Spill</b> <b>Jack Knetsch</b>, Simon Fraser University School of Resource &amp; Environmental Management</p> <p><b>GAO’s Assessment Methodology for Economic Analysis</b> <b>Oliver Richard</b>, U.S. Government Accountability Office</p> <p><b>Policy Formulation in Brazil: New Policy Evaluation Guidelines, and their Comparison to Best Practices in the U.S.</b> <b>Kerry Krutilla</b>, Indiana University – Bloomington <b>Kelvia Albuquerque</b>, Office of Chief of Staff, Presidency, Republic of Brazil <b>Martin de Almeida Fortis</b>, Ministry of Planning, Republic of Brazil</p>



MARVIN 301	2B	<b>Agricultural Trade and Policy</b>
	Chair	<b>Craig Thornton</b> , Mathematica Policy Research
	Discussant	<b>Gabriel Movsesyan</b> , U.S. Food & Drug Administration
	Presentations	<b>Benefit Analysis of Reducing Opioid Prescription Rates</b> <b>James Oehmke</b> , Professor Emeritus, Michigan State University <b>The Heterogenous Responses to and Social Welfare Effects of Smoking Bans in Bars and Restaurants</b> <b>Anne Burton</b> , Cornell University <b>A CBA of Corrective Lenses for Reducing the Symptoms of Dementia</b> <b>Robert Brent</b> , Fordham University
MARVIN 302	2C	<b>Digital Rights, Data Protection, and Data Privacy</b>
	Chair	<b>Joseph Cordes</b> , George Washington University
	Presentations	<b>Data Protection under the EU's GDPR</b> <b>Roslyn Layton</b> , American Enterprise Institute <b>The Other Side: What's the Cost of Data Protection?</b> <b>Aryamala Prasad</b> , George Washington University <b>Benefits and Costs of Privacy under Different Regimes</b> <b>Daniel Perez</b> , George Washington University <b>Ex Ante vs. Ex Post Enforcement of Privacy and Data Security</b> <b>Neil Chilson</b> , Charles Koch Foundation
MARVIN 307	2D	<b>Emerging Developments in Food Policy Regulatory Analysis &amp; Research: Experiences Across Countries</b>
	Chair	<b>Sandra Hoffmann</b> , U.S. Department of Agriculture
	Panelists	<b>Jason March</b> , Food Standards Australia New Zealand <b>Vanna Aldin</b> , UK Food Standards Agency <b>Angela Lasher</b> , U.S. Food and Drug Administration <b>Linda Abbott</b> , U.S. Department of Agriculture Office of Risk Analysis and Cost Benefit Analysis <b>Lin Ai</b> , Canadian Food Inspection Agency <b>Wonyong Kim</b> , South Korean Food Authority <b>Joseph Dunne</b> , The German Marshall Fund of the U.S.
MARVIN 308	2E	<b>Advances in Methodology</b>
	Chair	<b>Aaron Kearsley</b> , U.S. Food and Drug Administration
	Discussant	<b>Elizabeth Quin</b> , U.S. Food and Drug Administration
	Presentations	<b>Discounting for Public Cost-Benefit Analysis</b> <b>Qingran Li</b> , Duke University <b>Premature Deaths and Statistical Lives: Toward Clearer Quantification and Valuation of Environmental Mortality Risks</b> <b>James Hammitt</b> , Harvard University <b>Examining the Expert Performance Through the Random Expert Hypothesis</b> <b>Deniz Marti</b> , George Washington University

MARVIN 309	2F	<b>Some Unsettled Questions in Environmental Benefits and Costs</b>
	Chair	<b>Richard O. Zerbe</b> , University of Washington
	Discussant	<b>Eliane Catilina</b> , Environmental Protection Agency
	Presentations	<b>Co-Benefits</b> <b>Timothy Brennan</b> , University of Maryland – Baltimore County <b>Electric Vehicles in China: Implications of Variability in Costs, Health, and Climate Benefits</b> <b>Yana Jin</b> , College of William & Mary <b>Environmental Benefits of Federal Conservation Efforts: Lesson from Agricultural Program Analyses</b> <b>LeRoy Hansen</b> , U.S. Department of Agriculture/Economic Research Service
MARVIN 310	2G	<b>Transportation: BCA Asks, “Is it Road-Worthy?”</b>
	Chair	<b>Timothy Skeel</b> , Seattle Department of Transportation
	Presentations	<b>Making the Case for Transportation Investment with BCA</b> <b>Patrick Miller</b> , Steer Group <b>Estimating Social Discount Rate for the Long-Term Transport Investment Projects in Russia</b> <b>Maria Sheluntcova</b> , National Research University Higher School of Economics <b>Evaluating Future Highway Access via Risk-Cost-Benefit Analysis with Data Uncertainties</b> <b>Marwan Alsultan</b> , University of Virginia <b>Joint CBA of Maintenance and Investment: The Role of Quality of Service</b> <b>Marc Gaudry</b> , University of Montreal

## SESSION 3 | THURSDAY, MARCH 14 | 2:00 - 3:30 PM

AMPHITHEATRE	<b>PRESIDENTIAL SESSION</b>	
	3A	<b>Benefit-Cost Analysis of Tax Regulations</b>
	Chair	<b>Bridget Dooling</b> , The George Washington University Regulatory Studies Center
	Panelists	<b>Joseph Cordes</b> , George Washington University <b>Susan Dudley</b> , The George Washington University Regulatory Studies Center <b>Jerry Ellig</b> , The George Washington University Regulatory Studies Center <b>Mark Mazur</b> , Urban Institute
MARVIN 301	3B	<b>Economic Methods for Assessing Health Policies and Regulations</b>
	Chair	<b>Anne Burton</b> , Cornell University
	Discussant	<b>Elizabeth Ashley</b> , OIRA
	Presentations	<b>Sensitivity and Uncertainty Analysis of Particulate Matter and Ozone Health Impacts Using Alternative Inputs in BenMAP</b> <b>R. Jeffrey Lewis</b> , ExxonMobil Biomedical Sciences, Inc. <b>Challenges for Rulemaking and Insurance Guidelines from Conventional Definitions of Tobacco and Nicotine Products</b> <b>Gabriel Movsesyan</b> , U.S. Food and Drug Administration

		<b>A Comparison of Delay Discounting by e-Cigarette and Cigarette Users: Implications for U.S. Food and Drug Administration's Regulatory Impact Analysis</b> <b>Ce Shang</b> , University of Oklahoma Health Sciences Center
MARVIN 308	3E	<b>Regulatory Reform Under EO 13771: The First 2 Years</b>
	Chair	<b>Matt Wiener</b> , Administrative Conference of the U.S.
	Panelists	<b>Linda Abbott</b> , U.S. Department of Agriculture <b>Deborah Aiken</b> , Department of Transportation <b>Jeffrey Horn</b> , U.S. Coast Guard <b>Daniel Lawver</b> , U.S. Department of Health and Human Services <b>Nellie Lew</b> , U.S. Food and Drug Administration <b>Nan Shellabarger</b> , Federal Aviation Administration
MARVIN 309	3F	<b>Some Unsettled Questions in Environmental Policy</b>
	Chair	<b>John Whitehead</b> , Appalachian State
	Presentations	<b>Do the Costs of The U.S. Withdrawal from the Paris Agreement on Climate Change Outweigh the Benefits of Its Membership?</b> <b>Carolina Arlota</b> , University of Oklahoma College of Law <b>Federal Common Law Suits as a Remedy for Greenhouse Gas Emissions: An Efficiency Analysis of the American Electric Power Company Case</b> <b>Richard Zerbe</b> , University of Washington <b>Howard McCurdy</b> , American University <b>Segregated Welfare Losses from Cognitive, Informational and Politico-Economic Distortions-with Applications</b> <b>Kenneth Acks</b> , The Cost-Benefit Group
MARVIN 310	3G	<b>Transportation on Waterways: Keeping Afloat Using BCA</b>
	Chair	<b>Henrik Andersson</b> , Toulouse School of Economics
	Discussant	<b>Joe Devlin</b> , Environment and Climate Change Canada
	Presentations	<b>Evaluating Forecast Risk in Maritime Related Infrastructure Projects</b> <b>Bruce Lambert</b> , Mentis <b>Benefit-Cost Analysis of Restricting On-demand Draw Bridge Openings</b> <b>Timothy Skeel</b> , Seattle Department of Transportation <b>Estimating the Value of NOAA's Physical Oceanic Real Time System</b> <b>Douglas Scheffler</b> , U.S. Coast Guard



# SESSION 4 | THURSDAY, MARCH 14 | 3:45 - 5:15 PM

PRESIDENTIAL SESSION		
AMPHITHEATRE	4A	<b>Analysis for Uncertain Futures</b>
	Chair	<b>Daniel Perez</b> , George Washington Regulatory Studies Center
	Presentations	<b>Planning for Everything (Besides Death &amp; Taxes)</b> <b>Susan Dudley</b> , The George Washington University Regulatory Studies Center
		<b>Responsible Precautions for Uncertain Environmental Risks</b> <b>W. Kip Viscusi</b> , Vanderbilt University
		<b>Analytical Challenges Surrounding Analyses of Nuclear War</b> <b>James Scouras</b> , Johns Hopkins University Applied Physics Laboratory
		<b>From Football to Oil Rigs: Risk Assessment for Combined Cyber and Physical Attacks</b> <b>Fred Roberts</b> , Rutgers Univeristy
MARVIN 301	4B	<b>International Issues in Health Economics</b>
	Chair	<b>Ce Shang</b> , University of Oklahoma Health Sciences Center
	Discussant	<b>James Oehmke</b> , U.S. Agency for International Development
	Presentations	<b>Altruism and Efficient Allocations in Three-Generation Families (in Poland)</b> <b>Susan Chilton</b> , Newcastle University
		<b>Retrospective and Prospective Benefit-Cost Analyses of Anti-Smoking Policies in China</b> <b>Feng Liu</b> , Shanghai University of Finance and Economics
MARVIN 302	4C	<b>Breaking Good or Breaking Bad? Using Break-even Analysis in BCA</b>
	Chair	<b>Joe Devlin</b> , Environment and Climate Change Canada
	Presentations	<b>Jennifer Baxter</b> , Industrial Economics <b>Joseph Cordes</b> , George Washington University <b>Charles Griffiths</b> , Environmental Protection Agency
MARVIN 307	4D	<b>Food Safety Regulatory Analysis in a Global Setting (1)</b>
	Chair	<b>Flora Tsui</b> , U.S. Department of Agriculture Food Safety and Inspection Service
	Discussant	<b>Stephanie Desparo</b> , U.S. Department of Agriculture
	Presentations	<b>Modeling the Influence of Income Growth on Global Patterns of Foodborne Disease</b> <b>Sandra Hoffmann</b> , U.S. Department of Agriculture <b>Andrew Muhammad</b> , University of Tennessee Institute of Agriculture <b>Birgit Meade</b> , U.S. Department of Agriculture
		<b>Food Safety in Africa: Past Endeavors and Future Directions</b> <b>Lystra Antoine</b> , World Bank
		<b>JIFSAN's Training and Monitoring and Evaluation Program:</b> <b>Case Study of GAP's Training in Latin America</b> <b>Clare Narrod</b> , Joint Institute for Food Safety and Applied Nutrition, University of Maryland <b>Xiaoya Dou</b> , Joint Institute for Food Safety and Applied Nutrition, University of Maryland

MARVIN 308	4E	<b>Retrospective Review of the Bureau of Consumer Financial Protection: Three Case Studies</b>
	Chair	<b>Paul Rothstein</b> , Consumer Financial Protection Bureau
	Panelists	<b>Eric Durbin</b> , Consumer Financial Protection Bureau <b>Sergei Kulaev</b> , Consumer Financial Protection Bureau <b>Scott Fulford</b> , Consumer Financial Protection Bureau
MARVIN 309	4F	<b>Environmental Protection Agency's Detailed Analytic Blueprint: Model Plan for Agency Completion of Quality Benefit Cost Analyses for Rulemakings</b>
	Chair	<b>Kevin Bromberg</b> , US Small Business Administration Office of Advocacy
	Discussant	<b>Oliver Sherouse</b> , US Small Business Administration Office of Advocacy
	Panelists	<b>Kevin Bromberg</b> , US Small Business Administration Office of Advocacy <b>Stuart Shapiro</b> , Rutgers School of Planning and Public Policy <b>Allen Basala</b> , Former Economics Analyst, Environmental Protection Agency
MARVIN 310	4G	<b>Safety, Security, and Crime: Making Us Safer with Benefit-Cost Analysis</b>
	Chair	<b>Tony Cheesebrough</b> , U.S. Department of Homeland Security
	Presentations	<b>The Public Health Risks Addressed by the Import Alert Program</b> <b>Andrew Estrin</b> , U.S. Food and Drug Administration
		<b>Alternatives to Break-even Analysis in Safety and Security Regulations</b> <b>Ali Gungor</b> , U.S. Coast Guard <b>Homeland Security and Emergency Management Grant Allocation</b> <b>Barry Ezell</b> , Old Dominion University <b>Estimating Crime Costs in the States: Lessons Learned from Applied BCA</b> <b>Steven Lize</b> , The Pew Charitable Trusts



# SESSION 5 | FRIDAY, MARCH 15 | 9:00 - 10:30 AM

PRESIDENTIAL SESSION		
AMPHITHEATRE	5A	<b>Benefit-Cost Analysis in Low-and Middle-Income Countries: Illustrative Case Studies and Future Research Needs (1)</b>
	Chair	<b>Lisa A. Robinson</b> , Harvard University
	Presentations	<p><b>Reference Case Guidance Purpose and Goals</b>  <b>Damian Walker</b>, Bill and Melinda Gates Foundation</p> <p><b>Applying Benefit-Cost Analysis to Air Pollution Control in the Indian Power Sector</b>  <b>Maureen Cropper</b>, University of Maryland and Resources for the Future  <b>Sarath Guttikunda</b>, UrbanEmissions.Info  <b>Puja Jawahar</b>, UrbanEmissions.Info  <b>Zachary Lazri</b>, University of Maryland  <b>Kabir Malik</b>, World Bank  <b>Xiao-Peng Song</b>, University of Maryland  <b>Xinlu Yao</b>, University of Maryland</p> <p><b>Standardized Sensitivity Analysis in BCA: An Education Case Study</b>  <b>Dean Jamison</b>, University of California - San Francisco</p> <p><b>Contribution of Water Resources Development and Environmental Management to Uganda's Economy</b>  <b>James E. Neumann</b>, Industrial Economics  <b>Collins Amanya</b>, Ugandan Ministry of Water and Environment  <b>Kenneth M. Strzepek</b>, MIT and Harvard University</p>
MARVIN 301	5B	<b>Economic Assessments of Health Disparities and Health Disparities Research</b>
	Chair	<b>Sue Hamann</b> , National Institute of Health/ National Institute of Dental and Craniofacial Research
	Discussants	<p><b>Joe Cordes</b>, George Washington University  <b>Robin Yabroff</b>, American Cancer Society</p>
	Presentations	<p><b>Evaluating Economic and Non-Economic Outcomes of Publicly-Funded Biomedical Research</b>  <b>Sara Dodson</b>, National Institute of Health/ National Institute of Allergy and Infectious Diseases</p> <p><b>Econometric Methods for Measuring the Burden of Health Inequalities</b>  <b>Patrick Richard</b>, Uniformed Services University</p> <p><b>Designing BCA Studies for Oral Health Disparities Research</b>  <b>Sue Hamann</b>, National Institute of Health/ National Institute of Dental and Craniofacial Research</p>



MARVIN 307	5D	<b>Food Safety Regulatory Analysis in a Global Setting (2)</b>
	Chair	<b>Sandra Hoffmann</b> , U.S. Department of Agriculture Economic Research Service
	Discussant	<b>Aliya Sassi</b> , U.S. Food and Drug Administration
	Presentations	<p><b>Estimating Trade Flow When Foreign Countries Gain Food Safety Equivalency to Export Agricultural Products to the U.S. by a Gravity-Based Trade Model</b>  <b>Jason Grant</b>, U.S. Department of Agriculture Food Safety and Inspection Service  <b>Flora Tsui</b>, U.S. Department of Agriculture Food Safety and Inspection Service  <b>Bryan Maculloch</b>, U.S. Department of Agriculture Food Safety and Inspection Service</p> <p><b>Estimating Welfare Changes from Importing Agricultural Commodities Using the Simplified Plus Version of the Baseline Analysis System Model</b>  <b>Charlotte Ham</b>, U.S. Department of Agriculture Animal and Plant Health Inspection Service  <b>Setsuko Hoffman</b>, U.S. Department of Agriculture Animal and Plant Health Inspection Service  <b>Ken Forsythe</b>, U.S. Department of Agriculture Animal and Plant Health Inspection Service</p>
MARVIN 308	5E	<b>Estimating Costs</b>
	Chair	<b>Rachel Lange</b> , U.S. Food and Drug Administration
	Discussant	<b>Tomeka Williams</b> , MITRE Corporation
	Presentations	<p><b>Quasi-Fixed Labor Costs in Burden and Social Cost Calculations</b>  <b>William Wheeler</b>, Environmental Protection Agency</p> <p><b>Stated and Revealed Pollution Abatement Costs Revisited</b>  <b>Carl Pasurka</b>, Environmental Protection Agency</p> <p><b>Federal Agencies' Compliance with Public Cost Burden Estimation Requirements of the Paperwork Reduction Act</b>  <b>Ronald Bird</b>, George Washington University</p>
MARVIN 309	5F	<b>Benefits and Costs of Water Quality</b>
	Chair	<b>Nathalie Simon</b> , Environmental Protection Agency
	Presentations	<p><b>Benefit-Cost Analysis of Water Quality Improvement</b>  <b>Krishna Poudel</b>, Missouri Department of Natural Resources</p> <p><b>Benefits and Costs of Preventing Childhood Lead Poisoning from Drinking Water- A Case Study in New York State</b>  <b>Ying Zhou</b>, Centers for Disease Control and Prevention</p> <p><b>Estimating the Benefits to Florida Households from Avoiding Another Gulf Oil Spill Using the Contingent Valuation Method</b>  <b>John Whitehead</b>, Appalachian State University</p> <p><b>The Use of Retrospective BCA to Assess the Long-Term Effects of Infrastructures in the Water and Waste Sectors</b>  <b>Chiara Pancotti</b>, Centre for Industrial Studies</p>

MARVIN 310	5G	<b>The Wide Reach of Benefit-Cost Analysis</b>
	Chair	<b>Glenn Jenkins</b> , Queen's University
	Presentations	<p><b>The Great Indian Demonetization Experiment: Exploring the Benefits and Costs</b>  <b>Partha Ray</b>, Indian Institute of Management Calcutta</p> <p><b>A Cost-Benefit Analysis of the Millennium Challenge Corporation's Procurement Modernization Program in Indonesia</b>  <b>Jean Lee</b>, Millennium Challenge Corporation  <b>Brian Epley</b>, Millennium Challenge Corporation</p> <p><b>Can Cost-Benefit Analysis Tell Whether Sport and Cultural Events are Worth it for Hosting Cities?</b>  <b>Jerome Massiani</b>, Ca' Foscari University</p> <p><b>Gujarat's Prohibition Policy: A Case for Social Cost-Benefit Analysis</b>  <b>Siddhartha Rastogi</b>, Indian Institute of Management Indore</p>

## SESSION 6 | FRIDAY, MARCH 15 | 10:45 AM - 12:15 PM

AMPHITHEATRE	6A	<b>Benefit-Cost Analysis in Low-and Middle-Income Countries: Illustrative Case Studies and Future Research Needs (2)</b>
	Chair	<b>James K. Hammitt</b> , Harvard University
	Discussant	<p><b>James K. Hammitt</b>, Harvard University</p> <p><b>Dean Jamison</b>, University of California, San Francisco</p> <p><b>Lisa A. Robinson</b>, Harvard University</p>
	Presentations	<p><b>Benefit-Cost Analysis of Community-Led Total Sanitation Campaigns: Incorporating the Results from Recent Randomized Control Trials and Other Evaluations</b>  <b>Mark Radin</b>, University of North Carolina  <b>Marc Jeuland</b>, Duke University  <b>Hua Wang</b>, Remin University  <b>Dale Whittington</b>, University of North Carolina</p> <p><b>Comparing the Application of CEA and BCA to Tuberculosis Control Interventions in South Africa</b>  <b>Thomas Wilkinson</b>, University of Cape Town  <b>Fiammetta Bozzani</b>, London School of Hygiene and Tropical Medicine  <b>Anna Vassall</b>, London School of Hygiene and Tropical Medicine  <b>Michelle Remme</b>, London School of Hygiene and Tropical Medicine  <b>Edina Sinanovic</b>, University of Cape Town</p> <p><b>Benefit-Cost Analysis of a Package of Early Childhood Interventions to Improve Nutrition in Haiti</b>  <b>Brad Wong</b>, Copenhagen Consensus Center</p>

MARVIN 301	6B	<b>Benefit-Cost Analysis in Labor Policy</b>
	Chair	<b>Don Kenkel</b> , Cornell University
	Discussant	<b>Clayton Masterman</b> , Vanderbilt Ph.D. Program in Law and Economics
	Presentations	<p><b>Opting Out of Workers' Compensation Insurance: Non-Subscription in Texas and Its Cost and Benefit Effects</b> <b>Thomas Kniesner</b>, Claremont Graduate University</p> <p><b>Rethinking Law School Tenure Standards</b> <b>Kyle Rozema</b>, University of Chicago Law School</p> <p><b>Estimating the Benefits of Research on the Causes and Prevention of Work-Related Injury and Illness</b> <b>Tim Bushnell</b>, National Institute for Occupational Safety and Health <b>Rene Pana-Cryan</b>, National Institute for Occupational Safety and Health</p>
MARVIN 302	6C	<b>Frontiers in Benefit-Cost Analysis of Environmental Policies</b>
	Chair	<b>Tim Brennan</b> , University of Maryland – Baltimore County
	Presentations	<p><b>Epistemic Limits of Cost-Benefit Analysis in Environmental Policymaking</b> <b>David Adelman</b>, University of Texas at Austin School of Law</p> <p><b>Altruism, Endogenous Risk and the Value of Reduced Mortality</b> <b>Mark Dickie</b>, University of Central Florida</p> <p><b>Integrating Fundamental Uncertainty into Benefit-Cost Analysis for the Assessment of Deep-Seabed Mining</b> <b>David Good</b>, Indiana University – Bloomington <b>Kerry Krutilla</b>, Indiana University – Bloomington <b>Mike Toman</b>, World Bank <b>Tijen Arin</b>, World Bank</p> <p><b>The Economics of Regulatory Repeal</b> <b>Arthur Fraas</b>, Resources for the Future <b>Alan Krupnick</b>, Resources for the Future</p>
MARVIN 307	6D	<b>Exploring Forms of Regulation and their Impacts on Outcomes and Effectiveness</b>
	Chair	<b>Linda Abbott</b> , U.S. Department of Agriculture
	Presentations	<p><b>Economic and Social Regulation Revisited</b> <b>Brian Mannix</b>, George Washington University</p> <p><b>Does the Form of Regulation Matter?</b> <b>An Empirical Analysis of Regulation and Land Productivity Growth</b> <b>Zhoudan Xie</b>, George Washington University</p> <p><b>Evaluating the Impact of Certificate-of-Need Laws on Hospital Outcomes</b> <b>Mark Febrizio</b>, George Washington University</p> <p><b>Regulating Agencies' Benefit-Cost Analysis</b> <b>Stuart Shapiro</b>, Rutgers</p>

MARVIN 308	6E	<b>New Methods for BCA</b>
	Chair	<b>Glenn Blomquist</b> , University of Kentucky
	Presentations	<b>Analysis of Maritime Casualties from Vessel Groundings Using Ordered Probit Regression Model</b> <b>Fatima Zouhair</b> , U.S. Coast Guard <b>Douglas Scheffler</b> , U.S. Coast Guard
		<b>Using Machine Learning to Assess Heterogeneity in the Cost-Effectiveness of Health Care Programs</b> <b>Mikael Svensson</b> , University of Gothenburg
		<b>A Head Start for Every Runner: On Using Experimental and Quasi-Experimental Evidence to Forecast Policy Impacts</b> <b>Daniel Wilmoth</b> , U.S. Small Business Administration
		<b>Nonlinearity in Cost and Benefit Functions of Short-Term Repeated Consumer Decisions</b> <b>Amit Sharma</b> , Penn State University
MARVIN 309	6F	<b>Wetland Benefits from Definitional Changes of Waters of the United States</b>
	Chair	<b>Charles Griffiths</b> , Environmental Protection Agency
	Discussants	<b>William Wheeler</b> , Environmental Protection Agency <b>Chris Dockins</b> , Environmental Protection Agency
	Presentations	<b>Considerations for Appropriate Wetlands Benefit Transfer for National-Level Rule Making</b> <b>John Whitehead</b> , Appalachian State University
		<b>Waters of the United States: Upgrading Wetland Valuation via Benefit Transfer</b> <b>Elena Besedin</b> , ICF International <b>Klaus Moeltner</b> , Virginia Tech
		<b>Foregone Wetland Benefits from the Waters of the U.S. Redefinition</b> <b>Charles Griffiths</b> , Environmental Protection Agency <b>Matt Massey</b> , Environmental Protection Agency <b>Chris Moore</b> , Environmental Protection Agency





# SESSION 7 | FRIDAY, MARCH 15 | 2:00 - 3:30 PM

AMPHITHEATRE	7A	<b>International Experiences in Regulatory Reform</b>
	Chair	<b>Susan Dudley</b> , The George Washington University Regulatory Studies Center
	Panelists	<b>Carl Creswell</b> , UK Better Regulation Executive <b>Joseph Dunne</b> , European Parliament Research Service <b>Celine Kaufmann</b> , Organization for Economic Co-operation and Development <b>Jeannine R. Ritchot</b> , Regulatory Affairs Sector at Treasury Board of Canada Secretariat <b>Ana Maria Zárate Moreno</b> , International Consultant on Institutional Strengthening in Latin America and the Caribbean
MARVIN 301	7B	<b>Benefit-Cost Analysis in Education Policy</b>
	Chair	<b>Lynn Karoly</b> , RAND
	Discussant	<b>Michael Hirsch</b> , Washington State Institute for Public Policy
	Presentations	<b>Comparison of Benefit-Cost and Cost-Effectiveness Results Across 5 Youth Education and Training Programs</b> <b>David Long</b> , Princeton Policy Associates <b>CBA for Higher Education Diplomas: A First Assessment of the French Case</b> <b>Pierre Courtioux</b> , EDHEC Business School <b>Using Benefit-Cost Analysis to Address Significant Disproportionality in Special Education</b> <b>Richard Belzer</b> , Regulatory Checkbook
MARVIN 302	7C	<b>Energy Projects</b>
	Chair	<b>Emily Galloway</b> , U.S. Food and Drug Administration
	Presentations	<b>An Integrated Appraisal of a Wind Farm</b> <b>Glenn Jenkins</b> , Queen's University <b>Self-generation, Willingness to Pay for Electricity Reliability and Incomplete Property Rights</b> <b>Majid Hashemi</b> , Clemson University <b>Gender, Electricity, and Poverty: Distributional Effects of Power Sector Reforms in West Africa</b> <b>Francis Mulangu</b> , Millennium Challenge Corporation
MARVIN 307	7D	<b>Economic Analysis at Independent Agencies: Progress and Challenges</b>
	Chair	<b>Jerry Ellig</b> , The George Washington University Regulatory Studies Center
	Panelists	<b>Giulia McHenry</b> , Federal Communications Commission <b>Janis Pappalardo</b> , Federal Trade Commission <b>William Brennan</b> , Surface Transportation Board <b>Amy Edwards</b> , U.S. Securities and Exchange Commission

MARVIN 308	7E	<b>Overcoming Challenges in Regulatory Impact Analysis</b>
	Chair	<b>Sofie Miller</b> , U.S. Department of Energy
	Discussant	<b>Dan Lawver</b> , U.S. Department of Health and Human Services
	Presentations	<b>Overcoming Data Gaps: A Case Study</b> <b>Paul Reeder</b> , Employment and Social Development Canada <b>Parameter Uncertainty in Regulatory Impact Analysis</b> <b>Aaron Kearsley</b> , U.S. Food and Drug Administration <b>Implementing an Accounting Framework to Measure Outcomes for a New Policy Directive: Challenges and Lessons Learned</b> <b>Deborah Aiken</b> , U.S. Department of Transportation <b>Ross Rutledge</b> , National Highway Traffic Safety Administration

MARVIN 310	7G	<b>Stated Preference</b>
	Chair and Discussant	<b>Dan Acland</b> , University of California, Berkeley
	Presentations	<b>Willingness to Pay to Improve Patient Medication Information: A Stated Preference Study</b> <b>Bern Dealy</b> , U.S. Food and Drug Administration <b>The Willingness-to-pay (WTP) for Fundamental Science as a 'Public Good': A Survey to French Citizens</b> <b>Massimo Florio</b> , University of Milan <b>Publication Selection Biases in Stated Preference Estimates of the Value of a Statistical Life</b> <b>Clayton Masterman</b> , Vanderbilt Ph.D. Program in Law and Economics <b>Monetizing Bowser: A Contingent Valuation of the Statistical Value of Dog Life</b> <b>David Weimer</b> , University of Wisconsin – Madison <b>Hank Jenkins-Smith</b> , University of Oklahoma

## SESSION 8 | FRIDAY, MARCH 15 | 3:45 - 5:00 PM

GRAND BALLROOM & AMPHITHEATRE		<b>PLENARY SESSION</b>
	Plenary Speaker	<b>Dean Jamison</b> , University of California, San Francisco
	Presentation	<b>Valuing Investments in Health for Development: Reflections on Three Dynamic Decades</b>

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Applications open on 13 March;

Deadline for early bird registrations: 30 April 2019;

Deadline for application: 14 June 2019.

#### LOCATION

Palazzo Greppi, University of Milan  
Via Sant'Antonio 12  
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#### PRACTICAL INFORMATION

- Maximum places available: 40;
- **Discounted fee for SBCA members;**
- A detailed program is available online (<https://www.csilmilano.com/Summer-School/Summer-School.html>);
- Contact: [santoro@csilmilano.com](mailto:santoro@csilmilano.com)



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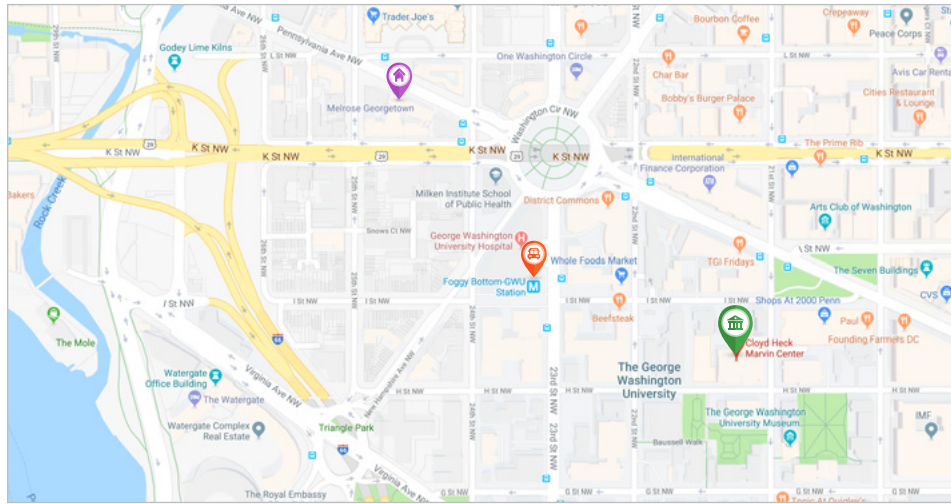
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# 2019 CONFERENCE LOGISTICS



## WORKSHOPS, RECEPTIONS AND CONFERENCE LOCATION

### **The George Washington University Marvin Center**

800 21st Street NW, Washington, DC 20052

*(Far Right Pin in the Map Above)*

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### **Melrose Georgetown Hotel**

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The Society for Benefit-Cost Analysis will be making an annual award for the best Ph.D. thesis dealing with the theory or practice of benefit-cost analysis. The award is intended to recognize outstanding work by promising new researchers in the field. The award is accompanied by a **\$1,000 Cash prize** and the winner will be **recognized at the SBCA annual meeting**.

The range of topics for candidate dissertations cover those of interest to the SBCA, including both theory and application of economic evaluation methods. Relevant methods include, but are not limited to:

- ➔ Benefit-cost analysis
- ➔ Cost-effectiveness analysis
- ➔ Cost analysis
- ➔ Regulatory impact analysis
- ➔ Risk-benefit analysis
- ➔ Applied welfare economic analysis
- ➔ Damage assessments

For applied research, illustrative substantive areas include:

- ➔ Civil and criminal justice
- ➔ Education and training
- ➔ Energy, natural resources, and environment
- ➔ Finance and financial markets
- ➔ Food and agriculture
- ➔ Health, health insurance, and health care
- ➔ International trade and development
- ➔ Safety and security
- ➔ Social welfare programs
- ➔ Transportation and infrastructure
- ➔ Workforce and workplace

The dissertation may be primarily focused on the theory or application of benefit-cost analysis, or it may be contained in a portion of the work (e.g., a subset of the chapters of the dissertation or one paper of a multi-paper dissertation).



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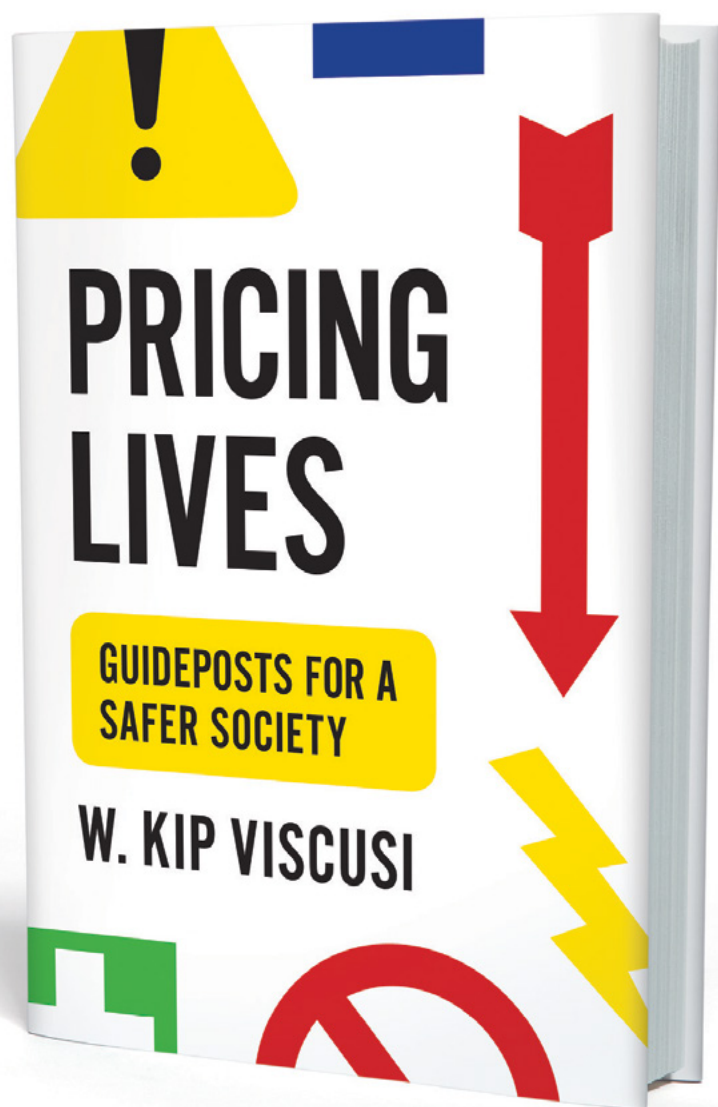
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